Rain-O-Matic Small Rain Gauge

Technical specifications

Rain collector/Tipping bucket

Rain-O-Matic Small measures the precipitation by means of a funnel (orifice 50 cm²), which leads the water down into the self-emptying tipping POM bucket, held in place by a hard ferrite magnet. The magnet always exerts just enough tension to allow the measuring bucket to empty in one quick movement (less than 300 ms) and then return to its normal position, ready to once again collect precipitation. This means the counter weight always remains the same opposite to other conventional two spoons tipping bucket rain gauges.

2 reed switches connected-up in series by 1 kohm and 1/4W resistor.

ASA

The rain gauge made in molded thermoplastic also known as ASA, which has high outdoor weather ability. ASA is extremely resistant against the sun’s UV radiation, it is frost- and heat resistant, standing all climatically conditions. The product is widely used in the automotive industry as well as several other outdoor applications.

PCB

The electronic printed circuit board with individually tested and high quality reed switches protected against extreme weather conditions such as extreme frost or heat. This include corrosion from salt water due to the PCB is coated with weather-resistant varnish.

The printed circuit board comes in two versions

- Version 1: Item no. 100.053 - PCB No. 9601 (NC—normally closed) has male connection and 1 reedswitch

- Version 2: Item no. 100.054 - PCB No. 9602 (NC—Normally closed, NO—Normally open). Terminal strip with 4 connections/2 outlets and

PCB

\[
\begin{array}{|c|c|c|c|}
\hline
\text{Terminal Strip} & \text{Reed Switch} & 0,2 \text{ mm/tip} & 0,25 \text{ mm/tip} & 0,50 \text{ mm/tip} \\
\hline
1 - 2 & \text{Normally Closed} & 190 \text{ ms} & 220 \text{ ms} & 255 \text{ ms} \\
3 - 4 & \text{Normally Open} & 295 \text{ ms} & 225 \text{ ms} & 295 \text{ ms} \\
\hline
\end{array}
\]

Operating times for PCB no. 9602

Rainfall intensity diagrams

Intensity-curve with 1,0 mm / impulse

ASA

ASA is extremely resistant against the sun’s UV radiation, it is frost- and heat resistant, standing all climatically conditions. The product is widely used in the automotive industry as well as several other outdoor applications.

ASA is extremely resistant against the sun’s UV radiation, it is frost- and heat resistant, standing all climatically conditions. The product is widely used in the automotive industry as well as several other outdoor applications.

ASA is extremely resistant against the sun’s UV radiation, it is frost- and heat resistant, standing all climatically conditions. The product is widely used in the automotive industry as well as several other outdoor applications.